

JUN 30 1982

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

DPM 3128

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME W. L. Gore & Assoc., Inc.		EMERGENCY Arizona: 602-526-1290 TELEPHONE NO. Delaware: 302-738-4880
ADDRESS (Number, Street, City, State, and ZIP Code) 1505 N. 4th St Flagstaff, Arizona 86001,		555 Papermill Road, Newark, Delaware 19711
CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS TETRA-ETCH® Etchant	
CHEMICAL FAMILY Sodium Aryl Radical	FORMULA	

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS Glycol ether	54	100	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES Sodium-naphthalene radical	46		OTHERS		
OTHERS					
HAZARDOUS MIXTURES OR OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
When mixed with water it forms caustic soda, naphthalene and other					
carbopolycyclics and an alkyldiether. Can react vigorously with					
oxidizing materials					

SECTION III PHYSICAL DATA

BOILING POINT (°F.) at 760 MM Hg.	185	SPECIFIC GRAVITY (H ₂ O=1) at 68°F	0.97
VAPOR PRESSURE (mm Hg.) at 68°F	48	PERCENT VOLATILE BY VOLUME (%)	0.68
VAPOR DENSITY (AIR=1)	3.11	EVAPORATION RATE (_____ = 1)	
SOLUBILITY IN WATER Partially Soluble			
APPEARANCE AND ODOR Greenish-black liquid. Odor of naphthalene and ether			

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) 34° Open Cup	FLAMMABLE LIMITS Unknown	Lel 1.8 pts/100 of air	Uel
EXTINGUISHING MEDIA Foam, Carbon Dioxide, Dry Chemical			
SPECIAL FIRE FIGHTING PROCEDURES None			
UNUSUAL FIRE AND EXPLOSION HAZARDS Ignites readily, burns vigorously			

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SECTION V HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	100 PPM
EFFECTS OF OVEREXPOSURE Can cause caustic burns by contact with moisture in skin; dizziness may result from inhalation; drowsiness; and possible anesthesia at 220 PPM.	
EMERGENCY AND FIRST AID PROCEDURES BURNS - Flush skin with water. See Physician	
INHALATION - Fresh air or oxygen	
EYE CONTACT - Flush with water for 15 minutes. See physician.	

SECTION VI REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID Temperature above 85°F, open flame, extended
	STABLE	X	Exposure to air or oxygen
INDOMPATABILITY (Materials to avoid) Oxidizing materials			
HAZARDOUS DECOMPOSITION PRODUCTS Contact with water produces caustic & naphthalene. Peroxides may form on long storage.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Flush with water	Neutralize with acetic acid
WASTE DISPOSAL METHOD (1) Dilute with water. Filter off naphthalene, (2) Combine filtrate with other plant alkaline wastes or neutralize with acetic or hydrochloric acid, (3) Submit N for incineration by Fed.-and State-approved waste hazard disposal.	

SECTION VII SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type)		
VENTILATION	LOCAL EXHAUST Preferable	SPECIAL Fume hood
	MECHANICAL (General) Acceptable	OTHER
PROTECTIVE GLOVES Vinyl or polyethylene		EYE PROTECTION Safety glasses, goggles, or face shield
OTHER PROTECTIVE EQUIPMENT Vinyl or polyethylene apron		

SECTION IX SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Keep cool and dry. Avoid long exposures to the air. If stored for more than 6 months, analyze for peroxide formation. Follow procedure for flammable material.	
OTHER PRECAUTIONS Store in freezer at 0°F.	